

Reporting Period

February 2000



# Monthly Project Report

## Contained Firing Facility Addition to B-801

Oakland Operations Office-Lawrence Livermore National Laboratory

### Project Description

**The Site 300 Contained Firing Facility Addition to B-801** adds 33,370 SF to existing firing Bunker 801. The addition consists of four parts - Firing Chamber, Support Facility, Diagnostic for improved environmental controls, safety, and waste management and minimization.



### General

**Project Name:**  
Contained Firing Facility Addition to B-801

**Project No:** 96-D-106

**Funding Source:** Defense Programs

**Original Funding Year:** FY1996

**Project Manager:**  
Rick Visoria, (925) 422-0939

**Project Engineer:**  
Barry N. Williams, (925) 422-0813

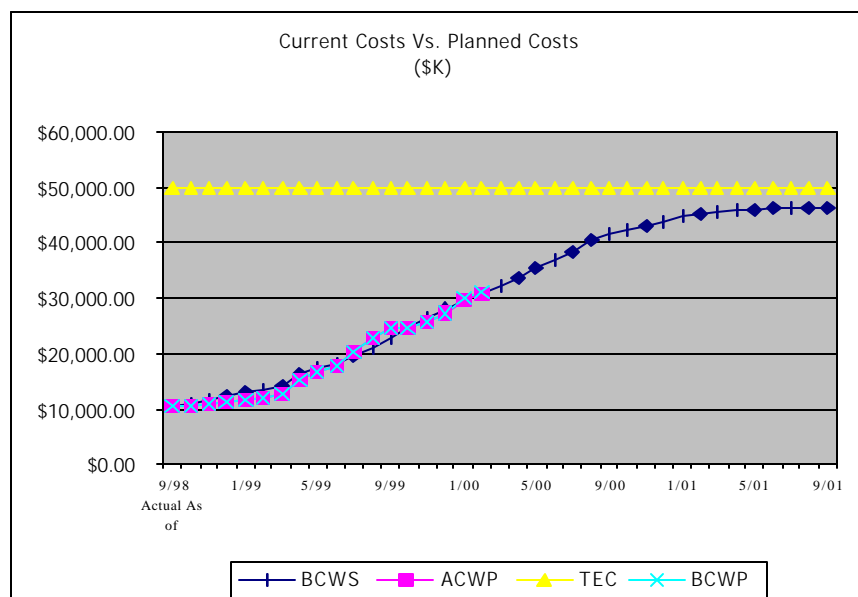
**Program Sponsor and Construction Program Manager:**  
Dennis M. Miotla, (301) 903-5427

**Prime Construction Contractor:**  
Nielson Dillingham Builders, Inc. (NDBI)

**Archit./Eng.:**  
Parsons Infrastructure and Technology

### Project Team Assessment

The project is on schedule and within budget. Total Estimated Cost (TEC) for the project remains \$49,700K. The current schedule completion is July 2001. No significant problems are envisioned.



## Project Status

Approximately 414 RFI's have been processed to date. NDBI has not identified any major concerns during this reporting period and all the RFI's have been answered. There have been some interferences identified in the Support Facility between lighting and ductwork. These are expected to be resolvable without much impact. The cost of approved construction changes is \$304K. An estimated \$49K of additional changes are in process for a total of \$353K. This represents approximately 1.7% of the NDBI construction contract value. The project is approximately 66% complete to date. The construction of the Contained Firing Facility remains on schedule.

Since the last reporting period, the concrete walls for the locker room area have been completed.



**Walls for the Locker Room area**

The scrubber has been delivered and installed in the mechanical electrical area.



**Installation of Scrubber**

The structural steel for the mechanical electrical area of the support facility is currently being installed. The slab for the support facility is scheduled to be poured in mid March. This will allow the remaining structural steel to be installed. The equipment blast door will be set on the door frame in mid march as well. The door manufacturer, Overly Door Company, will be present to supervise the installation of the door and check the fit.



**Support Facility Slab Reinforcing**

All the reinforcing and embedded steel is in place for the roof of the firing chamber. The formwork is being installed to support the current scheduled pour date of March 29, 2000.



**Chamber Roof reinforcing installation**

The roof pour is estimated to be approximately 1100 cubic yards. Once the concrete has cured sufficiently, the shoring inside the chamber will be removed and the remaining work inside the firing chamber will be completed.

Work in the clean diagnostic area (CDA) is progressing well.



**CDA Mechanical Electrical Rough In**

## Project Status (cont.)

The mechanical electrical rough-in is proceeding. Installation of the below floor cable tray is scheduled to start in late March and will be followed by the installation of access flooring and metal stud wall partitions. The siding in this area is due to be delivered in early April.

The specially fabricated office module windows capable of withstanding the overpressure from an accidental detonation have been installed.



### Office Module Windows Awaiting Installation

The remaining finishes are being completed and a final walk through and punchlist of the area is expected in late March. The project team plans to take a beneficial occupancy of the area in the April timeframe. Furniture has been ordered and is expected in late April.

The CFF project team has planned a partnering session for March 10, 2000. This will be the third partnering session and will focus on the completion goals for the remaining work. The work load and the critical path activities are transitioning from the heavy civil / structural to the mechanical / electrical / controls. This work area will be the specific focus of the partnering session as well as the acceptance testing activities. The project team is working very well as a whole and the goal is to build on our success as we transition to this next phase of work.

The preparation of operating procedures is continuing. The procedures for High Explosive Delivery/Offloading and High Explosive Personnel Sweep have been issued for review. Several other procedures are being drafted and this activity remains on schedule.

### Firing Chamber Highlights 2/00

	<u>Total Installed</u>	<u>Total Forecast</u>
Rebar	3,010,000 lbs.	3,010,000 lbs.
Concrete	2,803 Cu. Yd.	3,950 Cu. Yd.
Liner Plate/Embeds	1,225,750 lbs.	1,225,750 lbs.

## Developments Affecting Estimates and Schedules

The CFF project team and construction contractor are currently evaluating the integrated project schedule looking for opportunities to expedite the completion date. This effort should be completed in the mid-April timeframe.